

# Supporting Information

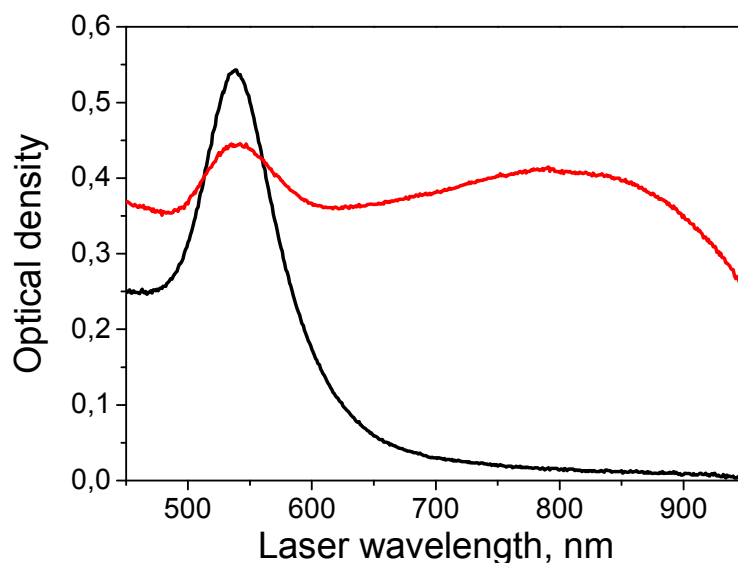
## for

### Laser Pulse Duration is Critical

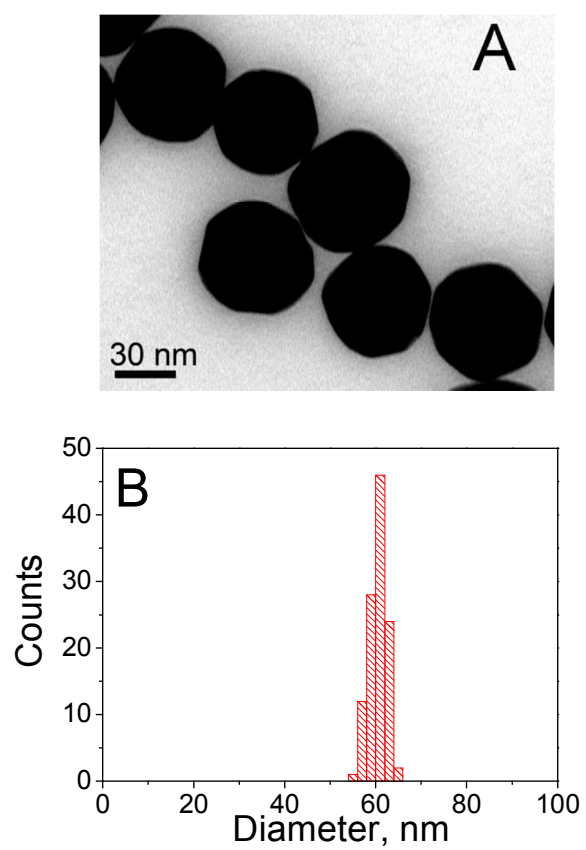
### for the Generation of Plasmonic Nanobubbles

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**Gold nanoparticles (GNPs).** Commercial solid gold spheres of the diameter  $59 \pm 2$  nm were used in water. The particles were obtained from Ted Pella, Inc. and Van Pelt BioScience LLC. According to both vendors, the particle surface has negative charge and, in addition to gold atoms, included some atoms of chloride. The particles were shipped as water suspensions.



**Figure S1.** Optical extinction spectra of water suspension of GNPs: single GNPs (black) and aggregated (clustered) GNPs (red).



**Figure S2.** GNP size and shape evaluation: Transmission electron microscopy images (a) and the histogram of the GNP diameter (b).